

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-144772

(43)Date of publication of application : 25.05.2001

(51)Int.Cl.

H04L 12/28

G06F 1/18

G06F 13/14

(21)Application number : 11-322267

(71)Applicant : SANKYO SEIKI MFG CO LTD

(22)Date of filing : 12.11.1999

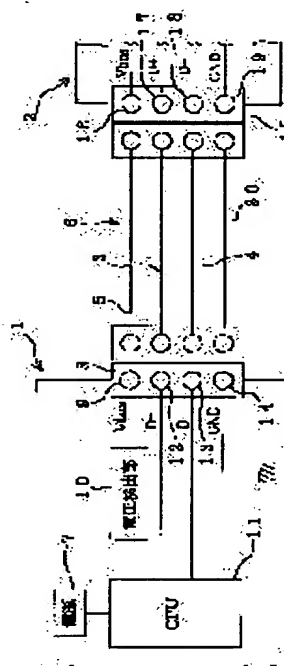
(72)Inventor : OHIGATA HIDEKAZU

## (54) USB DEVICE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To detect physical disconnection of a host side computer and a USB device having a self power source when it is disconnected.

**SOLUTION:** The USB device 1 is connected to the host side computer 2 by a USB cable 6 having signal lines 3 and 4, a power source line 5 and a grounded line 20, communicating with the computer 2 with its own power source 7. In the device 1, a voltage detecting part 10 for detecting a power source voltage supplied from the computer 2 is connected to a power source line connecting Vbus terminal 9 which is arranged in a connector 8 at the side of the device 1 to which the USB cable 6 is connected. The connection of the USB cable 6 is detected by the output of the voltage detecting part 10.



## LEGAL STATUS

[Date of request for examination]

25.03.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]